Table 1. Return of banded burrowing owls to the Kuna Butte study area (1997), reflecting between-year movements.

between-year me	Original	Age When		1997		Breeding
	Location	First		Nest	Distance	Successful
Band Number	(Year)	Observed	Sex		(km)	in 1997
				Locatio		
				n		
	Kuna Butte #1					
1204-43751	(1996)	Adult	Female	EFN ^b #2	1.47	Yes
	EFN #1					Yes
1204-43764	(1996)	Juvenile	Female	EFN #3	0.16	
				K. Butte	3.92	
1204-43766	Kuna Cave #2	Juvenile	Male	Gravel		Yes
	(1996)			#1		
	Sewage Pond #1		Male	Sewage	0.06	Yes
1204-43767	(1996)	Adult		Pond #2		
	Kuna Butte #5					
614-89605°	(1996)	Juvenile	Unknown			
	Dairy #2			Kuna		
614-89644	(1996)	Juvenile	Male	Butte	1.26	Yes
				#6		

^areflects *breeding dispersal* distance if adult when initially banded, and *natal dispersal* distance if juvenile when first banded. ^bEFN = Effluent Field North.

^cdetected at natural burrow on 22 March 1997 approximately 0.55 km from natal burrow; unknown if nesting attempted in 1997.

Table 2. Return of banded burrowing owls to the Grand View study area (1997), reflecting

between-year movements.

between-year me	Original	Age When		1997	D:-4a	Breeding
Band Number	Location (Year)	First Observed	Sex	Nest Location	Distance ^a (km)	Successfu 1 in 1997
1204-43777	Trailer #2 (1996)	Juvenile	Male	Trailer #5	0.10	Yes
1204-43778	Well #2 (1996)	Adult	Female	Well #3	0.21	Yes
1204-43779	Well #1 (1996)	Adult	Male	Well #2	0.07	Yes
1204-43780	Trailer #1 (1996)	Adult	Male	Trailer #1	0.00	Yes
1204-43783	Trailer #2 (1996)	Adult	Female	Trailer #1	0.23	Yes
1204-43791	Trailer #1 (1996)	Juvenile	Male	Baja Pole #19	1.24	Yes
614-89656	Sub South #6 (1996)	Juvenile	Male	Baja #3	1.57	Yes
614-89672	Sub East #1	Juvenile	Male	Power-line #2	1.12	Yes
614-89673	Sub South #4 (1996)	Juvenile	Female	Sub East #1	1.52	Yes
614-89678	Trailer #2 (1996)	Juvenile	Female	Power-line #2	1.77	Yes

^areflects *breeding dispersal* distance if adult when initially banded, and *natal dispersal* distance if juvenile when first banded.

Table 3. Pattern of nest burrow (re-) use in the Kuna Butte study area (1994 - 1997). X = burrow used for nesting; (F) = nesting attempt failed and no young fledged; O = burrow not used for nesting, confirmed; NM = burrow not monitored for use during our study; -- = burrow likely not used; * = artificial burrows placed around historical natural burrow; $X^* = burrow$ artificial burrow at historical site.

Nest Name	1994	1995	1996	1997
Dairy #1	X (F)	0	O	NM
Dairy #2	X	X	X	NM
Dairy #3	X	O	О	NM
Dairy #4	X (F)	O	О	NM
Dairy #5	X (F)	O	О	NM
Dairy #6	X	X	X	NM
Dairy #7			X (F)	NM
Sewage Pond #1	X	X	X	X*
Sewage Pond #2		X	X	X*
Kuna Butte #la	X (F)	Destroyed	Destroyed	Destroyed
Kuna Butte #lb		X	X	X*
Kuna Butte #2	X	X	0	X (F)
Kuna Butte #3	X	O	О	X*
Kuna Butte #4	X (F)	O	О	NM
Kuna Butte #5	X	X	X	O*
Kuna Butte #6	X	X	О	X*
Kuna Butte #7			X	O*
Effluent Field North #1			X	X*
Effluent Field South #1			X	X*
Kuna Cave #1	NM	X	О	О
Kuna Cave #2	NM	X	X	O*
Kunda Cave #3	NM	X	X	O*
Swan Falls 1	X	O	О	О
Swan Falls South		X (F)	О	О
Swan Falls #3			X	O*
Swan Falls #4			X	X*
J. Hayes	(likely used) ^a	X	X	O*
B. Stewart #1	0	X	X	X*
B. Stewart #2	O	X	X	X*
IBP #la	X (F)	O	O	NM
IBP #lb		X	О	NM
IBP #2	X	X	X	NM
Indian Creek S.		X	О	NM
Indian Creek W.	NM	X	О	NM

Table 3 continued

Nest Name	1994	1995	1996	1997
IAP #1		X	O	NM
IAP #2	NM	X	O	NM
Beig #1	NM	NM	NM	X*
Poen #1	NM	NM	NM	X
Honeybee #1	NM	NM	NM	X (F)

^afree-flying juveniles observed in vicinity of burrow but nesting in burrow not confirmed.

Table 4. Pattern of nest burrow (re-) use in the Grand View study area (1996-1997). X = burrow used for nesting; (F) = nesting attempt failed and no young fledged; 0 = burrow not used for nesting, confirmed; NM = burrow not monitored for use during our study; -- = burrow likely not used; * = artificial burrows placed around historical natural burrow; $X^* = burrow$ artificial burrow at historical site.

Nest Name	1996	1997	
Trailer #1	X	X*	
Trailer #2	X	X*	
Trailer #3	X	Destroyed	
Trailer #4	NM	X*	
Trailer #5		X	
Well #1	X	O*	
Well #2	X	X*	
Baha #1	X	X*	
Baha #5	NM	X	
Trailer View #1	X	X*	
Trailer View #4		X	
Grand View #2	X	O*	
Grand View #3	O	O*	
Grand View #19	X	X*	
Substation South #1	X	X*	
Substation South #2	X	X*	
Substation South #4	X	O*	
Substation #5	О	X*	
Substation #6	X	X*	
Substation #7		O*	
Substation South #8		X (F)	
Substation East #1	X	X*	
Substation East #2		X	
C.J. Strike Dam #1	NM	X	
97-1	NM	X	
97-2	NM	X (F)	
97-3	NM	X	

Table 5. Occupied nest name, identity of breeding adults, and number of nestlings or fledglings banded and observed in the Kuna Butte and Grand View study areas during the 1997 breeding period. Unless otherwise indicated, adults were initially banded in 1997. Dashes (--) indicate breeding owls that remained unbanded. Question Marks (?) indicate unknown numbers of young for a nest.

Type Male Female Banded (observed)
Kuna Butte Study Area Artificial 614-89701 10 (10) Sewage Pond #2 Artificial 1204-43767a 614-89705 3 (3) Kuna Butte #1b Artificial 614-89722 4 (4) Kuna Butte #3 Artificial 614-89644b 1204-52150 1 (2) Kuna Butte #6 Artificial 614-89644b 1204-57010 1 (?) Kuna Butte Gravel #1 Artificial 1204-43766c 614-89723 4 (4) Kuna Butte Ag. #1 Artificial 614-89725 614-52149 8 (8) Kuna Cave Satellite #1 Artificial 614-89728 9 (9) Effluent Field North #1 Artificial 614-89708 9 (9) Effluent Field North #2 Artificial 614-89724 1204-43751d 9 (9) Effluent Field South #1 Artificial 614-89726 614-89704 8 (8) Effluent Field South #2 Artificial Unk. Bandf 614-89706 10 (10) Swan Falls #4 Artificial 614-
Sewage Pond #1 Artificial 614-89701 10 (10) Sewage Pond #2 Artificial 1204-43767* 614-89705 3 (3) Kuna Butte #1b Artificial 614-89722 4 (4) Kuna Butte #3 Artificial 614-52150 1 (2) Kuna Butte #6 Artificial 614-89644* 1204-57010 1 (?) Kuna Butte Gravel #1 Artificial 1204-43766* 614-89723 4 (4) Kuna Butte Ag. #1 Artificial 614-89725 614-52149 8 (8) Kuna Cave Satellite #1 Artificial 614-89708 9 (9) Effluent Field North #1 Artificial 614-89708 9 (9) Effluent Field North #2 Artificial 614-89724 1204-43751* 9 (9) Effluent Field South #1 Artificial 614-89726 614-89704 8 (8) Effluent Field South #2 Artificial Unk. Bandf 614-89706 10 (10) Swan Falls #4 Artificial 614-89706 10 (10)
Sewage Pond #2 Artificial 1204-43767° 614-89705 3 (3) Kuna Butte #1b Artificial 614-89722 4 (4) Kuna Butte #3 Artificial 614-52150 1 (2) Kuna Butte #6 Artificial 614-89644° 1204-57010 1 (?) Kuna Butte Gravel #1 Artificial 1204-43766° 614-89723 4 (4) Kuna Butte Ag. #1 Artificial 614-89725 614-52149 8 (8) Kuna Cave Satellite #1 Artificial 614-89708 9 (9) Effluent Field North #1 Artificial 614-89708 9 (9) Effluent Field North #2 Artificial 614-89724 1204-43751d 9 (9) Effluent Field South #3 Natural 1204-43764e 1 (?) Effluent Field South #1 Artificial 614-89726 614-89704 8 (8) Effluent Field South #2 Artificial 614-89706 10 (10) Swan Falls #4 Artificial 614-89706 10 (10) <
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Kuna Butte #6 Artificial 614-89644b 1204-57010 1 (?) Kuna Butte Gravel #1 Artificial 1204-43766c 614-89723 4 (4) Kuna Butte Ag. #1 Artificial 614-89725 614-52149 8 (8) Kuna Cave Satellite #1 Artificial 614-52148 7 (7) Effluent Field North #1 Artificial 614-89708 9 (9) Effluent Field North #2 Artificial 614-89724 1204-43751d 9 (9) Effluent Field North #3 Natural 1204-43764c 1 (?) Effluent Field South #1 Artificial 614-89726 614-89704 8 (8) Effluent Field South #2 Artificial Unk. Bandf 614-89704 8 (8) Effluent Field South #2 Artificial 614-89706 10 (10) Swan Falls #4 Artificial 614-89696 10 (10) Swan Falls #6 Natural 1 (?) Swan Falls #8 Natural 1 (?) Prison #2
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Kuna Butte Ag. #1 Artificial 614-89725 614-52149 8 (8) Kuna Cave Satellite #1 Artificial 614-52148 7 (7) Effluent Field North #1 Artificial 614-89708 9 (9) Effluent Field North #2 Artificial 614-89724 1204-43751d 9 (9) Effluent Field North #3 Natural 1204-4376de 1 (?) Effluent Field South #1 Artificial 614-89726 614-89704 8 (8) Effluent Field South #2 Artificial Unk. Bandf 614-89704 8 (8) Effluent Field South #2 Artificial 614-89706 10 (10) Swan Falls #4 Artificial 614-89706 10 (10) Swan Falls #6 Natural 614-52279 4 (6) Swan Falls #8 Natural 1 (?) Swan Falls #8 Natural 614-89707 7 (7) Prison #2 Artificial 614-89727 2 (2) Poen #1 Natural
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Swan Falls #6 Natural 614-52279 4 (6) Swan Falls #7 Natural 1 (?) Swan Falls #8 Natural 1204-59409 1 (5) Prison #1 Artificial 614-89707 7 (7) Prison #2 Artificial 614-89727 2 (2) Poen #1 Natural 1 (?) Beig #1 Artificial 7 (7) B. Stewart #1 Artificial 614-89793 614-89702 9 (9) B. Stewart #2 Artificial 614-89703 4 (4)
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Swan Falls #8 Natural 1204-59409 1 (5) Prison #1 Artificial 614-89707 7 (7) Prison #2 Artificial 614-89727 2 (2) Poen #1 Natural 1 (?) Beig #1 Artificial 7 (7) B. Stewart #1 Artificial 614-89793 614-89702 9 (9) B. Stewart #2 Artificial 614-89703 4 (4)
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B. Stewart #2 Artificial 614-89703 4 (4)
D. Storrout #2 Notined 1204 57041 (2.49)
B. Stewart #3 Natural 1204-57041 2 (?)
Grand View Study Area
Trailer #1 Artificial 1204-43780 ^g 1204-43783 ^h 10 (10)
Trailer #2 Artificial 614-89693 5 (5)
Trailer #4 Artificial 614-52152 11 (11)
Trailer #5 Natural 1204-43777 ⁱ 614-52292 4 (5)
Well #2 Artificial 1204-43779 ^j 614-52222 11 (11)
Well #3 Artificial 1204-43778 ^k 11 (11)
Baha #1 Artificial 614-89692 8 (8)

Table 5. Continued.

				#Young
	Burrow	Adult	Adult	Banded
Nest Name	Type	Male	Female	(observed)
Baha #3	Artificial	614-89656 ¹	614-89695	6 (6)
Baha #5	Natural			4 (6)
Trailer View #1	Artificial		614-52147	7 (7)
Trailer View #4	Natural			0 (>I)
Grand View #19	Artificial		614-89694	5 (5)
Substation South #1	Artificial		614-52164	7 (7)
Substation South #2	Artificial			11 (11)
Substation South #5	Artificial			7 (7)
Substation South #6	Artificial	1204-59405	614-52151	6 (6)
Substation South #8	Natural	614-89690	614-52277	0 (0)
Substation East #1	Artificial		614-89673 ^m	8 (8)
Substation East #2	Natural		614-52257	3 (?)
Powerline #2	Artificial	614-89672 ⁿ	614-89678°	3 (3)
Powerline #3	Artificial		614-52195	2 (2)
Powerline #5	Artificial	614-52298	614-52244	2 (2)
Baja Pole #19	Artificial	1204-43791 ^p	614-89691	7 (7)
C.J. Strike Dam #1	Natural		614-89687	1 (?)
97-1	Natural		614-52278	4 (6)
97-2	Natural		614-89688	0 (?)
97-3	Natural		614-89698	0 (?)

^abanded as breeding male at Sewage Pond #1 in 1996.

^bbanded as nestling at Dairy #2 in 1996.

banded as nestling at Kuna Cave #2 in 1996.

^dbanded as breeding female at Kuna Butte #1 in 1996.

^ebanded as nestling at Effluent Field North #1 nest in 1996.

^funidentified because lacking color bands and did not capture in 1997.

gbanded as breeding male at same nest in 1996.

^hbanded as breeding female at Trailer #2 nest in 1996.

ⁱbanded as nestling at Trailer #2 nest in 1996.

^jbanded as breeding male at Well #1 nest in 1996.

^kbanded as breeding female at Well #2 nest in 1996.

¹banded as nestling at Substation South #2 nest in 1996.

mbanded as nestling at Substation South #2 nest in 1996.

[&]quot;banded as nestling at Substation East #1 nest in 1996.

[°]banded as nestling at Trailer #2 nest in 1996.

^pbanded as nestling at Trailer #1 nest in 1996.

Table 6. Occupancy of artificial burrow clusters of 3 placed around natural nest burrows used in either 1995 or 1996 and patterns of chamber size selection for each occupied nest burrow. An asterisk (*) indicates the minimum number of eggs possible as some nests were not checked until hatching began.

		Chamber	# Eggs Laid(#
Nest Name	Occupied	Size Used	Fledged ^a)
Kuna Butte Study Area			
Sewage Pond #1	Yes	Large	11* (8)
Sewage Pond #2	Yes	Medium	9* (3) ^b
Kuna Butte #1b	Yes	Large	8 (3)
Kuna Butte #5	No		
Kuna Butte #7	No		
Effluent Field North #1	Yes	Large	9 (8)
Effluent Field South #1	Yes	Large	9 (8)
Kuna Cave #2	No		
Kuna Cave #3	No		
Swan Falls #3	No		
Swan Falls #4	Yes	Large	11 (10)
Prison #1	Yes	Large	7 (7)
J. Hayes #1	No		
J. Hayes #2	No		
J. Hayes #3	No		
B. Stewart #1	Yes	Medium ^c	9 (8)
B. Stewart #2	Yes	Small ^d	8 (4)
Grand View Study Area			
Trailer #1	Yes	Large	10 (5)
Trailer #2	Yes	Large	10* (5)
Trailer #4	Yes	Large	12* (8)
Well #1	No		
Well #2	Yes	Large	11 (5)
Baha #1	Yes	Small	9* (4)
Substation East #1	Yes	Large	8* (8)
Trailer View #1	Yes	Medium	8* (7)
Grand View #2	No		
Grand View #3	No		
Grand View #19	Yes	Large	10 (3)
Substation South #1	Yes	Large	10 (7)
Substation South #2	Yes	Large	11* (6)
Substation South #4	No		

Table 6 continued

N. AN	0 1	Chamber	# Eggs Laid(#
Nest Name	Occupied	Size Used	Fledged ^a)
Grand View Study Area			
Substation South #5	Yes	Large	12* (6)
Substation South #6	Yes	Large	9 (4)
Substation South #7	No		

^ajuvenile burrowing owls considered fledged at 28 d old.

^bsix eggs did not hatch.

^clarge chamber collapsed prior to nest site selection because of trampling by cattle.

^dlarge chamber and tunnel to medium chamber collapsed prior to nest site selection because of trampling by cattle.

Table 7. Occupancy of artificial burrow clusters of 2 placed in suitable burrowing habitat and patterns of tunnel diameter selection for each occupied nest burrow.

		Tunnel	# Eggs Laid(#
Nest Name	Occupied	Diameter Used	Fledged ^a)
Kuna Butte Study Area	•		,
Kuna Butte Gravel #1	Yes	10 cm	9 (4)
Kuna Butte Gravel #2	No		
Effluent Field North #2	Yes	10 cm	9 (9)
Effluent Field South #2	Yes	15 cm	10 (7)
Kuna Cave Satellite #1	Yes	10 cm	8 (7)
Kuna Cave Satellite #2	No		
Kuna Butte Ag #1	Yes	15 cm	10 (8)
Swan Falls Satellite #5	No		
Prison #2	Yes	15 cm	9 (2) ^b
Prison #3	No		
Grand View Study Area			
Powerline #1	No		
Powerline #2	Yes	10 cm	9 (2)
Powerline #3	Yes	10 cm	11 (2)
Powerline #4	No		
Powerline #5	Yes	10 cm	8 (2)
Substation Southeast #1	No		
Baha Pole #19	Yes	10 cm	9 (7)
Trailer View #2	No		
Trailer View #3	No		
Well #3	Yes	15 cm	11 (11)
Baha #2	No		
Baha #3	Yes	10 cm	10 (6)
Baha #4	No		
Backyard #1	No		

^ajuvenile burrowing owls considered fledged at 28 d old.
^badult male was killed by red-tailed hawk (*Buteo jamaicensis*) two days after last egg hatched; two young survived to fledge out of nine eggs laid.